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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1

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	Complete if Known
Application Number	10/733,807-Conf. #8859
Filing Date	December 11, 2003
First Named Inventor	Paul R. McHugh
Art Unit	1742
Examiner Name	W. T. Leader Zheng
Attorney Docket Number	291958241US Ø

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
T.77		US-60/476,786		Davis et al.	
L.Z L.Z		US-60/476,881		Hanson	
1.7		US-60/484,603		Wilson et al.	
LZ LZ		US-60/484,604		Wilson et al.	
LZ		US-2001-0052465-A1	07-01-2003	Dordi et al.	
LZ		US-2002-0000380-A1		Graham et al.	
		US-2002-0088708-A1		Yasuhiko Sakaki	
LZ LZ		US-2003-0221953-A1			
LZ			01-06-2005		
LZ		US-2005-0006241-A1			
		US-3,652,442	03-28-1972	Powers et al.	
LZ LZ	l	US-4,648,774	03-10-1987	Dorumsgaard et al.	
LZ		US-5,284,554	02-08-1994	Datta et al.	
LZ	-	US-5,312,532	05-17-1994	Andricacos et al.	
LZ	_	US-5,344,491	09-06-1994		
LZ	-	US-5,421,987	06-06-1995		
LZ		US-5,431,421	07-11-1995		
LZ		US-5,476,577	12-19-1995		
LZ		US-5,486,282	01-23-1996		
1.7.		US-5,516,412	05-14-1996		
		US-5,536,388	07-16-1996	The second secon	
LZ LZ		US-5,543,032	08-06-1996		
LZ		US-5,567,300	10-22-1996		- i
LZ		US-5,683,564	11-04-1997		
LZ		US-5,865,984	02-02-1999		
LZ		US-5,925,226	07-20-1999	Hurwitt et al.	
		US-6,001,235	12-14-1999		
<u>LZ</u>		US-6,103,096	08-15-2000	Datta et al.	
LZ		US-6,168,695	01-02-2001	Woodruff	
LZ	l —	US-6,181,057	01-30-2001	Inoue et al.	
T.7.		US-6,228,231	05-08-2001	Uzoh .	
LZ		US-6,251,250	06-26-2001	Keigler	
LZ		US-6,379,511	04-30-2002		
LZ		US-6,454,918	09-24-2002	Sakaki	
LZ		US-6,482,300-A1	11-19-2002	Sakaki	
I.Z.		US-6,547,937	04-15-2003		
LZ		US-6,635,157	10-21-2003		
LZ	· ·	US-6,660,137-A1	12-09-2003	Wilson et al.	
LZ		US-6,672,820	01-06-2004	Hanson	

Examiner	/Lois Zheng/	Date	01/18/2007
Signature	/ DOID BRORG/	Considered	

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				Application Number	10/733,807-Conf. #8859	
11	IFORMATION	N DI	SCLOSURE	Filing Date	December 11, 2003	
S	STATEMENT BY APPLICANT			First Named Inventor	Paul R. McHugh	
				Art Unit	1742	
	(Use as many sheets as necessary)		Examiner Name	W. T. Leader		
Sheet	2	of	2	Attorney Docket Number	291958241US	

		FOREIG	GN PATENT	DOCUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
T.7		EP-0 343 502 A2	11-29-1989	Lam Research Corp.		
Lz		EP-0 726 698 A2	08-14-1996	International Business Machines Corp		
LZ	-	JP-62-297494	12-24-1987	Electroplating Eng of Japan Co		
LZ		JP-62-297495	12-24-1987	Electroplating Eng of Japan Co		
LZ		JP-1-120827	05-12-1989	Mitsubishi Electric Corp		
LZ		JP-5-175158	07-13-1993	Fujitsu Ltd. et al.		
LZ		JP-06-260468	09-16-1994	Tokuyama		Ш
LZ		JP-7-211724	08-11-1995	Casio Computer Co. Ltd		L
LZ		JP-7-284738	10-31-1995	Toppan Printing Co. Ltd.		
LZ		JP-09089067	03-31-1997	Koganei Corp.		
LZ		JP-10-172974	06-26-1998	Denso Corp.		
T.7		JP-11-092993	04-06-1999	TDK Corp		
LZ LZ		JP-2000-17480	01-18-2000	Fujitsu Ltd.		
LZ		JP-2001-64795	03-13-2001	Electroplating Eng of Japan Co		
LZ		WO-01/50505-A3	07-12-2001	Semitool, Inc.		
LZ		WO-04/110698-A2	12-23-2004	Semitool, Inc.		
LZ		WO-05/042804-A2	05-12-2005	Nexx Systems, Inc.		
LZ		WO-99/25004	05-20-1999	Applied Materials, Inc.		

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		NON PATENT LITERATURE DOCUMENTS	
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LZ		WU, Z.L. et al., "Methods for Characterization of Mass Transfer Boundary layer in an industrial Semiconductor Wafer Plating Cell," Abs. 165, 205 th Meeting, © The Electrochemical Society, Inc., 2004 (1 Page).	

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'Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Lois Zheng/	Date Considered	01/18/2007

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s	Substitute for form 1449A/B/PTO			Complete if Known		
_				Application Number	10/733,807-Conf. #8859	
I	NFORMATIC	ON DI	SCLOSURE	Filing Date	December 11, 2003	
STATEMENT BY APPLICANT			APPLICANT	First Named Inventor	Paul R. McHugh	
				Art Unit	1742	
(Use as many sheets as necessary)		Examiner Name	W. T. Leader			
Shee	1	of	1	Attorney Docket Number	291958241US	

	U.S. PATENT DOCUMENTS					
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LZ		US-20010032788-A1	10-25-2001	Woodruff et al.		
LZ		US-4,749,601	06-07-1988	Hillinger		
LZ		US-6,136,163	10-24-2000	Cheung et al.		
LZ		US-6,214,193	04-10-2001	JONATHAN D. REID		
1.7.		US-6,231,743	05-15-2001	GREGORY S. ETHERINGTON		

		FOREIG	GN PATENT I	DOCUMENTS		
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages	76
Initials*	No.'	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	or Relevant Figures Appear	
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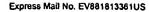
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LZ		TACKEN, R.A. et al., "Applications of Magnetoelectrolysis", Journal of Applied Electrochemistry, 1995 (no month), Vol. 25, pages 1-5	
LZ		International Search Report for PCT/USO4/17670; Mailed June 22, 2006; Applicant: Semitool, Inc. (19 pages)	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner	/- ! - !	Date	01/10/2007
	/Lois Zheng/	= · · · · · · · · · · · · · · · · · ·	01/18/2007
Signature	,,	Considered	

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Şu	bstitute for form 1449A/B	/PTO		Complete if Known		
				Application Number	10/733,807-Conf. #8859	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	December 11, 2003	
				First Named Inventor	Paul R. McHugh	
				Art Unit	1742	
	(Use as many sheets as necessary)			Examiner Name	W. T. Leader	
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		Number-Kind Code ² (if known)				
LZ		US-5,000,827	03-19-1991	VIRGIL E. SCHUSTER		
LZ		US-5,222,310	06-29-1993	Thompson et al.		
LZ		US-5,230,743	07-27-1993	Thompson et al.		
LZ		US-5,344,539	09-06-1994	Shinogi et al.		
L.Z.		US-5,531,874	07-02-1996	DENIS J. BROPHY		
LZ		US-5,614,076	03-25-1997	DENIS J BROPHY		
LZ		US-5,635,157	06-03-1997	Mease et al.		
LZ		US-5,762,751	06-09-1998	MARTIN C. BLECK		
LZ		US-6,024,856	02-15-2000	Haydu et al.		
LZ		US-6,037,790	03-14-2000	THOMAS EDWARD DINAN		
LZ		US-6,048,154	04-11-2000	Wylman		
LZ		US-6,082,948	07-04-2000	Fishkin et al.		
T.7.		US-6,132,586	10-17-2000	Adams et al.	· · · · · · · · · · · · · · · · · · ·	
LZ		US-6,197,182	03-06-2001	Kaufman et al.		
LZ		US-6,328,872	12-11-2001	HOMAYOUN TALIEH		

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T [©]

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